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**Mint Classics Inventory Optimization Project Report**

Key Insights & Analysis

* Warehouse Utilization

WarehouseD has the lowestproductcount and stockquantity, suggesting underutilization.

Despite this, WarehouseDshowedthehighest%capacityused (75%), indicating it's operating closer to its limit.

WarehouseA has similar capacity usage (~72%) but more product volume, making D a better candidate for closure.

* Customer & Revenue Distribution

WarehouseDservesvery fewnumberofcustomers and brings in very lowrevenue, making it more feasible for shutdown.

* Customer Satisfaction Metrics

Warehouse D takes the most average order fulfilment days(Shipped date – Order date)

Delayed shipments (shipped after required Date) were counted to assess customer impact. Warehouse D has the highest number of delayed shipments

* Products having high stock levels and low profit margin

Products like ToyotaSupra**,** Porsche**,** AlpineRenault stored in WarehouseB have veryhighexcessstock and lowornegativeprofitmargins, with Toyota Supra having zero sales and negative profit margin

These items are ideal candidates for removalfrom the product line to free up space. This makes WarehouseBapotentialrecipient for products from Warehouse D.

Some of the products like Chevrolet Deluxe, Boeing X-32A etc has very low profit margin so its stock can be reduced or the product can be removed irrespective of the warehouse .

* Inventory turnover ratio

Warehouse B has the lowestinventoryturnoverratio, indicating that products stored here are sellingslowly and occupying storage space for longer durations.

**Final Recommendation**

* Close Warehouse D.
* **Transfer essential products** from D to B.**Eliminate low-profit, excess stock items** from B to make space.
* **Maintain high-performing products and ensure 24-hour dispatch capability.**